

Claims

What is claimed is:

- 1 1. A method of incorporating location information in a file, comprising:
 - 2 receiving a command to operate on a file;
 - 3 determining whether a special code is present;
 - 4 reading location information from a location information resource if the
 - 5 determination whether the special code is inserted in the file is affirmative;
 - 6 determining whether the special code indicates permanent substitution of the
 - 7 special code with the location information; and
 - 8 substituting the location information for the special code if the determination
 - 9 whether the special code indicates permanent substitution of the special code with
 - 10 the location information is affirmative.
- 1 2. The method of claim 1, wherein the location information comprises latitude
- 2 and longitude.
- 1 3. The method of claim 1, wherein the location information comprises
- 2 geographical place name information.
- 1 4. A method of incorporating location information in a file, comprising:
 - 2 receiving a command to operate on a file;
 - 3 determining whether a special code is associated with the file;
 - 4 reading location information from a location information resource if the
 - 5 determination whether the special code is inserted in the file is affirmative;
 - 6 determining whether the special code indicates temporary replacement of the
 - 7 special code with the location information; and
 - 8 temporarily replacing the location information for the special code if the
 - 9 determination whether the special code indicates temporary replacement of the
 - 10 special code with the location information is affirmative.

1 5. The method of claim 4, further comprising displaying the contents of the file
2 based, at least in part, on the command.

1 6. The method of claim 4, further comprising printing the contents of the file
2 based, at least in part, on the command.

1 7. The method of claim 4, wherein the location information resource is a GPS
2 module, and the information comprises latitude and longitude.

1 8. The method of claim 4, wherein the location information comprises
2 geographical place name information.

1 9. A method of updating a programmable clock with time zone information,
2 comprising:
3 reading location information from a location information resource;
4 determining whether the location information is within a first time zone;
5 generating updated time information based, at least in part, on the change in
6 time zone if the determining whether the location information is within a first time
7 zone is negative; and
8 updating the programmable clock with the updated time information.

1 10. The method of claim 9, wherein the first time zone corresponds with time
2 information associated with the programmable clock.

1 11. The method of claim 9, wherein the updated time information comprises
2 updated time zone information and corresponding numeric time information.

1 12. The method of claim 9, further comprising:

2 updating the programmable clock subsequent to a user action.

1 13. The method of claim 12, wherein the user action is pushing a button.

1 14. The method of claim 9, further comprising:
2 automatically updating the programmable clock.

1 15. The method of claim 14, wherein a user selects attributes associated with
2 automatically updating the programmable clock.

1 16. The method of claim 11, wherein the programmable clock displays the
2 updated time information and a reference time information, wherein the reference
3 time information corresponds with a reference time zone.

1 17. The method of claim 16, wherein the reference time zone is selectable by a
2 user.

1 18. A method of updating a programmable clock with time zone information,
2 comprising:
3 reading location information from a location information resource;
4 determining whether the location information is within a first time zone;
5 determining whether the distance between the location information and a time
6 zone boundary is greater than a pre-determined amount if the determining whether
7 the location information is within a first time zone is negative;
8 generating updated time information based, at least in part, on the change in
9 time zone if the determining whether the distance between the location information
10 and a time zone boundary is greater than a pre-determined amount is affirmative;
11 and
12 updating the programmable clock with the updated time information.

1 19. The method of claim 18, wherein the pre-determined amount is based, at
2 least in part, on a margin of error associated with the location information resource.

1 20. The method of claim 18, wherein the pre-determined amount is based, at
2 least in part, on a distance needed for a hysteresis.

1 21. The method of claim 18, wherein the pre-determined amount is selectable by
2 a user.

1 22. A method of providing time and time zone history, comprising:
2 reading location information from a location information resource;
3 determining time zone information from the location information;
4 determining a corresponding time with the time zone information; and
5 writing the time and time zone information to the file.

1 23. A method of providing time and time zone history, comprising:
2 determining reference time information, wherein the reference time
3 information comprises, at least, a reference time zone and a corresponding time.
4 writing the reference time zone and the corresponding time information to the
5 file.

1 24. The method of claim 23, wherein the reference time zone is selectable by a
2 user.

1 25. A method of providing time and time zone history, comprising:
2 reading time and time zone information from a programmable clock; and
3 writing the time and time zone information to the file.

1 26. A method of incorporating time and time zone information for a directory
2 listing, comprising:
3 receiving a directory listing command; and
4 displaying a directory listing, wherein the directory listing includes time and
5 time zone information.

1 27. A method of incorporating time and time zone information for a directory
2 listing, comprising:
3 receiving a directory listing command;
4 displaying a directory listing, wherein the directory listing includes time and
5 time zone information;
6 selecting a sorting order;
7 sorting the directory listing in accordance with the sorting order; and
8 displaying the directory listing in accordance with the sorting order.

1 28. The method of claim 27, wherein the directory listing is sorted by time zone
2 information.

1 29. A method of incorporating specified regions for a directory listing, comprising:
2 receiving a directory listing command;
3 displaying a directory listing, wherein the directory listing includes specified
4 regions;
5 selecting a sorting order;
6 sorting the directory listing in accordance with the sorting order; and
7 displaying the directory listing in accordance with the sorting order.

1 30. The method of claim 29, wherein the directory listing can be sorted by
2 specified regions.

- 1 31. The method of claim 30, wherein the specified regions comprise geographic
- 2 areas defined by longitude and latitude information.

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